



IFW16

## RAW SEQUENCE LISTING

DATE: 09/09/2004

PATENT APPLICATION: US/09/445,788B

TIME: 10:54:48

Input Set : A:\53922.ST25.txt

Output Set: N:\CRF4\09092004\I445788B.raw

3 <110> APPLICANT: Cantab Pharmaceuticals Research Limited  
 4 Baldwin, Thomas J  
 5 Borriello, Peter S  
 6 Palmer, Helen M  
 8 <120> TITLE OF INVENTION: Live Attenuated Vaccines  
 10 <130> FILE REFERENCE: 5673-53922-01  
 12 <140> CURRENT APPLICATION NUMBER: 09/445,788B  
 13 <141> CURRENT FILING DATE: 2000-01-06  
 15 <150> PRIOR APPLICATION NUMBER: PCT/GB98/01683  
 16 <151> PRIOR FILING DATE: 1998-06-09  
 18 <150> PRIOR APPLICATION NUMBER: GB 9711964.8  
 19 <151> PRIOR FILING DATE: 1997-06-09  
 21 <160> NUMBER OF SEQ ID NOS: 20  
 23 <170> SOFTWARE: PatentIn version 3.3  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 31  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Artificial sequence  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: primer  
 33 <400> SEQUENCE: 1  
 34 ggaattcgay wscgaygayr tbcgbcayat g  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 31  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: Artificial sequence  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: primer  
 45 <400> SEQUENCE: 2  
 46 ggaattcrtc vggratrtgr ttcattrcca t  
 49 <210> SEQ ID NO: 3  
 50 <211> LENGTH: 27  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: Artificial sequence  
 54 <220> FEATURE:  
 55 <223> OTHER INFORMATION: primer  
 57 <400> SEQUENCE: 3  
 58 gcagatgcc gaagcttttt atagcgg  
 61 <210> SEQ ID NO: 4  
 62 <211> LENGTH: 36  
 63 <212> TYPE: DNA  
 64 <213> ORGANISM: Artificial sequence  
 66 <220> FEATURE:



31

31

27

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/445,788B

DATE: 09/09/2004

TIME: 10:54:48

Input Set : A:\53922.ST25.txt

Output Set: N:\CRF4\09092004\I445788B.raw

```

67 <223> OTHER INFORMATION: primer
69 <400> SEQUENCE: 4
70 gagctcggta ccgtgcagcg tgtccagatc tgcaag 36
73 <210> SEQ ID NO: 5
74 <211> LENGTH: 24
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: primer
81 <400> SEQUENCE: 5
82 cataaaagga tcctggttcg ccag 24
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 37
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: primer
93 <400> SEQUENCE: 6
94 ggtaccgagc tccaaatgaa ggcagatctc gtcgccc 37
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 27
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: primer
105 <400> SEQUENCE: 7
106 acaatgaaag tagaattcgt cggctgg 27
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 27
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: primer
117 <400> SEQUENCE: 8
118 gaabgcsgwg atgaattcgc cgcccat 27
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 19
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: primer
129 <400> SEQUENCE: 9
130 ccctgctcac gtcgaccag 19
133 <210> SEQ ID NO: 10
134 <211> LENGTH: 19
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: primer

```

## RAW SEQUENCE LISTING

DATE: 09/09/2004

PATENT APPLICATION: US/09/445,788B

TIME: 10:54:48

Input Set : A:\53922.ST25.txt

Output Set: N:\CRF4\09092004\I445788B.raw

```

141 <400> SEQUENCE: 10
142 acgcggtcga cgctgcacg 19
145 <210> SEQ ID NO: 11
146 <211> LENGTH: 24
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: primer
153 <400> SEQUENCE: 11
154 aatacgcaat tggatcctgc ttgc 24
157 <210> SEQ ID NO: 12
158 <211> LENGTH: 25
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: primer
165 <400> SEQUENCE: 12
166 gatattgaat catatggaaa aattc 25
169 <210> SEQ ID NO: 13
170 <211> LENGTH: 27
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: primer
177 <400> SEQUENCE: 13
178 gtgattttgg ataagctttg caattcc 27
181 <210> SEQ ID NO: 14
182 <211> LENGTH: 24
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: primer
189 <400> SEQUENCE: 14
190 ccagcgccat gaagcttcca tcat 24
193 <210> SEQ ID NO: 15
194 <211> LENGTH: 24
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: primer
201 <400> SEQUENCE: 15
202 gacaggatcc aatggtgcaa aacc 24
205 <210> SEQ ID NO: 16
206 <211> LENGTH: 24
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: primer
213 <400> SEQUENCE: 16

```

## RAW SEQUENCE LISTING

DATE: 09/09/2004

PATENT APPLICATION: US/09/445,788B

TIME: 10:54:48

Input Set : A:\53922.ST25.txt

Output Set: N:\CRF4\09092004\I445788B.raw

```

214 aatcatgggc atatgtgttt cctg 24
217 <210> SEQ ID NO: 17
218 <211> LENGTH: 23
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: primer
225 <400> SEQUENCE: 17
226 cggaattcgg tctgaagcgg atg 23
229 <210> SEQ ID NO: 18
230 <211> LENGTH: 24
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: primer
237 <400> SEQUENCE: 18
238 cgcagcagga attcccgttt atcg 24
241 <210> SEQ ID NO: 19
242 <211> LENGTH: 54
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: primer
249 <400> SEQUENCE: 19
250 gggcccgggc tgcagccgtc tgaaatgcat ttcagacggc tgcagcccgg gcc 54
253 <210> SEQ ID NO: 20
254 <211> LENGTH: 25
255 <212> TYPE: DNA
256 <213> ORGANISM: Artificial sequence
258 <220> FEATURE:
259 <223> OTHER INFORMATION: primer
261 <400> SEQUENCE: 20
262 cataaaggga tccgtgttcg ccagc 25

```

**VERIFICATION SUMMARY**

DATE: 09/09/2004

PATENT APPLICATION: US/09/445,788B

TIME: 10:54:49

Input Set : A:\53922.ST25.txt

Output Set: N:\CRF4\09092004\I445788B.raw